PATENT COOPERATION TREA

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER ACTION as we	see Form PCT/ISA/220 Il as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/US2004/034169	15/10/2004	15/10/2003
Applicant		**************************************
CHIRON CORPORATION		
This International Search Report has be according to Article 18. A copy is being	en prepared by this International Searching Aut transmitted to the International Bureau.	hority and is transmitted to the applicant
	ts of a total of 6 sheets.	
X It is also accompanied b	by a copy of each prior art document cited in this	report.
Basis of the report a. With regard to the language, the language in which it was filed, un	e international search was carried out on the ba nless otherwise indicated under this item.	sis of the international application in the
	al search was carried out on the basis of a transl	lation of the international application furnished to
b. With regard to any nucle	eotide and/or amino acid sequence disclosed	in the international application, see Box No. I.
2. X Certain claims were for	und unsearchable (See Box II).	
3. Unity of invention is lac	cking (see Box III).	
4. With regard to the title,		
	submitted by the applicant.	
the text has been establi	shed by this Authority to read as follows:	
	·	
	•	
5. With regard to the abstract,		
party.	ubmitted by the applicant.	
X the text has been establis may, within one month from	shed, according to Rule 38.2(b), by this Authority om the date of mailing of this international searc	y as it appears in Box No. IV. The applicant the report, submit comments to this Authority.
6. With regards to the drawings,		
a. the figure of the drawings to be p	oublished with the abstract is Figure No.	
as suggested by	• •	
	is Authority, because the applicant failed to sugg	
	is Authority, because this figure better character e published with the abstract.	izes the invention.
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International application No.

PCT/US2004/034169

	Box No. IV	Text of the abstract ((Continuation of item 5 of the first sheet)
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The present invention discloses methods and compositions for viral inhibition, particularly inhibition of HCV and SARS. The invention also provides compositions including carbazole derivatives useful for viral inhibition.

Form PCT/ISA/210 (continuation of first sheet (3)) (January 2004)

nternational Application No PCT/US2004/034169

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C07D209/90 C07D209/94 C07D401/12 C07D405/12 C07D417/12
A61K31/403 A61P31/14

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 C07D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data, PAJ, WPI Data

C. DOCUM	ENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
А	WO 01/49662 A (LIN HO SHEN; LILLY CO ELI (US); RICHETT MICHAEL ENRICO (US)) 12 July 2001 (2001-07-12) page 1, paragraph 1 page 2, paragraph 2 page 3, formula (I) page 80, paragraph 3 examples	1-104
A	WO 01/51479 A (WARNER LAMBERT CO; BOOTH RICHARD JOHN (US); JOSYULA VARA PRASAD VENKA) 19 July 2001 (2001-07-19) page 1, paragraph 1 page 2, paragraph 1 page 10, paragraph 2 examples 432-446	1-104

Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
 Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed 	 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the International search report
4 January 2005	12/01/2005
Name and mailing address of the ISA	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Hoepfner, W

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nternational Application No
PCT/US2004/034169

Category °	citation of document, with indication, where appropriate, of the relevant passages	Dotouget to state No.
Calegory	Chanon of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 03/050119 A (DELLARIA JOSEPH F; 3M INNOVATIVE PROPERTIES CO (US); MERRILL BRYON A) 19 June 2003 (2003-06-19) page 1, line 9 page 2, formula (I) page 28, lines 31,32; examples	1-104
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International application No. PCT/US2004/034169

INTERNATIONAL SEARCH REPORT

Box II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This Inte	ernational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. 🗶	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
	Although claims 1-59 AND 89-104 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2.	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This Inte	mational Searching Authority found multiple inventions in this international application, as follows:
1.	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark	on Protest The additional search fees were accompanied by the applicant's protest.
	No protest accompanied the payment of additional search fees.

...ormation on patent family members

pternational Application No PCT/US2004/034169

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	ent document n search report		Publication date		Patent family member(s)		Publication date
WO (0149662	Α	12-07-2001	AU	4599601	Α	16-07-2001
				EP	1248769	A2	16-10-2002
				WO	0149662	A2	12-07-2001
				US	2004204473	A1	14-10-2004
WO C	0151479	Α	19-07-2001	AU	1808501	A	24-07-2001
				BR	0016937	Α	31-12-2002
				CA	2396560	A1	19-07-2001
				EP	1248777	A2	16-10-2002
				JP	2003519693	T	24-06-2003
				WO	0151479	A2	19-07-2001
				US	2003229073	A1	11-12-2003
WO C	03050119	Α	19-06-2003	US	2002107262		08-08-2002
				BR	0214749		31-08-2004
				CA	2468164	A1	19-06-2003
				CA	2468174		19-06-2003
				CA	2468659		19-06-2003
				EP	1453829		08-09-2004
				EP	1451186	A2	01-09-2004
				EP	1451187		01-09-2004
				HR	20040503		31-12-2004
				HR	20040504	A2	31-12-2004
				HR	20040506		31-12-2004
				WO	03050117		19-06-2003
				WO	03050118		19-06-2003
				WO	03050119		19-06-2003
				US	6525064		25-02-2003
				US	6545016		08-04-2003
				US	6545017		08-04-2003
				US	2004019076		29-01-2004
				US	2003186949		02-10-2003
				US	2003195209		16-10-2003
				US	2003162806		28-08-2003
				US	2003176458	A1	18-09-2003
				US	2004147533	A1	29-07-2004
						A1 A1	